

ABSTRACT OF THE DISCLOSURE

A method and apparatus for compensating for video insertion loss due to transmission over long coaxial cable lines is presented. An Electro-Magnetic Interference suppression type filter having a ferrite core is used to simulate and thereby compensate for the effect of the cable insertion loss on video transmitted over long coaxial cables. The Electro-Magnetic Interference suppression filter has a frequency response similar to the insertion loss characteristics of a coaxial cable, especially at the low to mid frequency range, where it has been traditionally difficult both in cost and in complexity to compensate because of the frequency response characteristics of the coaxial cable. High frequency compensation is also added using a voltage variable capacitance diode device to extend the total compensated video bandwidth to beyond 200 megahertz.